

(FILE 'HOME' ENTERED AT 14:57:59 ON 11 MAR 2003)

FILE 'MEDLINE, BIOSIS, EMBASE, LIFESCI, CAPLUS' ENTERED AT 14:58:39 ON 11
MAR 2003

L1 6 S TELOMERIZED (A) CELL
L2 3 DUP REM L1 (3 DUPLICATES REMOVED)

FILE 'STNGUIDE' ENTERED AT 15:00:03 ON 11 MAR 2003

L2 ANSWER 2 OF 3 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.DUPLICATE 1
AN 2001047956 EMBASE
TI Adrenocortical cells immortalized by telomerase: Potential use for ex vivo
gene therapy.
AU Hornsby P.J.; Ozol K.; Yang K.
CS Dr. P.J. Hornsby, Huffington Center on Aging, Baylor College of Medicine,
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SO Journal of Anti-Aging Medicine, (2000) 3/4 (411-417).
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FS 003 Endocrinology
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LA English
SL English
AB Telomerization, the process of immortalization of normal cells by
expression of telomerase reverse transcriptase (TERT), could be of great
use in biomedicine if the process allows cells to retain their normal
properties and does not promote neoplastic transformation. In this
article, we review the data on the potential uses of **telomerized**
cells in ex vivo gene therapy, and discuss the issue of the
potential risks of the use of this technology. We present preliminary data
on the transplantation of telomerized bovine adrenocortical cells in the
rat brain. Like other cell types, adrenocortical cells may be engineered
to secrete desirable gene products. Currently, problems of immune
rejection limit the usefulness of this potential therapy. We discuss
future improvements in this cell transplantation system that could address
these questions. Telomerization, by removing the senescence barrier to
unlimited cell proliferation, will greatly aid the genetic modification of
cells in order to solve the issue of immune rejection and other problems.